

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Kuo-Liang Peng Examiner #: 76860 Date: 4/15/03
 Art Unit: 1712 Phone Number 306-5550 Serial Number: 10/031612
 Mail Box and Bldg/Room Location: CP3 6E04 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the claims attached.

STAFF USE ONLY

Searcher:	Type of Search	Vendors and cost where applicable
<u>K. Fuller</u>	NA Sequence (#) _____	STN <input checked="" type="checkbox"/>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>4</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>4/16/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>40</u>	Fulltext ~ _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>70</u>	Other _____	Other (specify) _____

=> file reg

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STRUCTURE FILE UPDATES: 15 APR 2003 HIGHEST RN 503084-53-5
DICTIONARY FILE UPDATES: 15 APR 2003 HIGHEST RN 503084-53-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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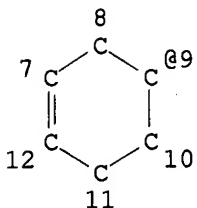
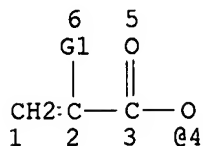
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FILE COVERS 1907 - 16 Apr 2003 VOL 138 ISS 16
FILE LAST UPDATED: 15 Apr 2003 (20030415/ED)

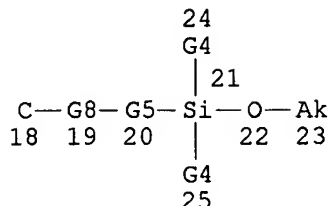
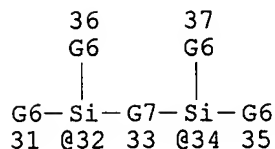
This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d que

L12 STR



G3 13

O—Ak
@26 27G6—Si—G6
28 @29 30

21 structures from
this query which
covers BR-Q-D
in claim 1

VAR G1=H/CH3
VAR G3=9/4
VAR G4=26/AK/CB
REP G5=(0-10) CH2
VAR G6=AK/CB
VAR G7=O/AK/CB
VAR G8=29/32-18 34-20
NODE ATTRIBUTES:
NSPEC IS RC AT 18
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE
L14 21 SEA FILE=REGISTRY SSS FUL L12
L15 4 SEA FILE=HCAPLUS ABB=ON L14

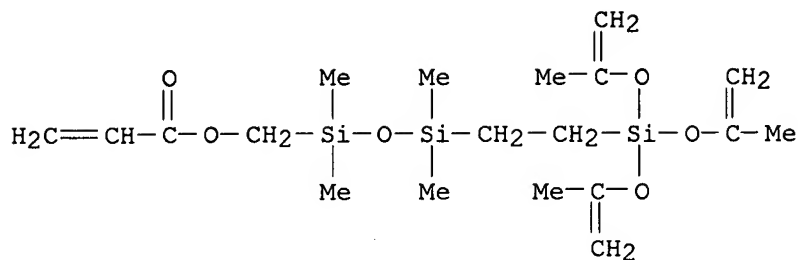
4 CA references

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L15 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:330269 HCAPLUS
DN 136:341552
TI Organosilicon crosslinker compound for silicones
IN Ozai, Toshiyuki; Hara, Hiroyasu; Inoue, Yoshifumi; Goto, Tomoyuki
PA Shin-Etsu Chemical Co., Ltd., Japan
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C07F007-18
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 38
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 1201672 A2 20020502 EP 2001-125522 20011025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2002128790 A2 20020509 JP 2000-327558 20001026
US 2002099232 A1 20020725 US 2001-983933 20011026
PRAI JP 2000-327558 A 20001026
OS MARPAT 136:341552
AB An organosilicon compd. has a structure (HR1C:CR2CO2Z1)3-
mSi(R3)mZ2Si(R3)nX3-n, where R1 = H, Ph or a halogenated Ph; R2 = H or Me;
R3's = substituted or unsubstituted monovalent hydrocarbon group having
1-10 C atoms; X = hydrolyzable group; Z1 = R4, R4O or R4Me2SiO, where R4 =
substituted or unsubstituted divalent hydrocarbon group having 1-10 C
atoms; Z2 = O or a substituted or unsubstituted divalent hydrocarbon group
having 1-10 C atoms; and m = 0, 1 or 2 and n = 0, 1 or 2. When
incorporated in silicone compns., the organosilicon compd. acts as a
crosslinking agent having well-balanced photopolymerizability and
condensation curability. Thus, 1-methylbis(2-methacryloxyethoxy)silyl-2-
triisopropenoxysilylethane, prepn. given, may be used to cure
hydroxy-terminated siloxane by UV light and high humidity.
ST photo moisture curing agent organosilicon; methacryloxyethoxysilyl
triisopropenoxysilylethane curing agent
IT Adhesives
(dual curing; organosilicon crosslinker compd. for photo- and
moisture-curing silicones)
IT Crosslinking agents
(organosilicon crosslinker compd. for photo- and moisture-curing
silicones)
IT Polysiloxanes, uses
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT
(Reactant or reagent); USES (Uses)
(organosilicon crosslinker compd. for photo- and moisture-curing
silicones)
IT 419548-79-1P 419548-80-4P 419548-81-5P 419548-82-6P 419548-83-7P
419548-84-8P 419548-85-9P 419548-86-0P 419548-87-1P 419548-88-2P
419548-89-3P 419548-90-6P 419548-91-7P **419548-92-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(crosslinker; organosilicon crosslinker compd. for photo- and
moisture-curing silicones)
IT 75-54-7, Dichloromethylsilane 681-84-5, Tetramethoxysilane 818-61-1,
2-Hydroxyethyl acrylate 868-77-9, 2-Hydroxyethyl methacrylate
1066-35-9, Dimethylchlorosilane 2768-02-7, Vinyltrimethoxysilane
9016-00-6, Dimethylsilanediol homopolymer, sru 15332-99-7,
Vinyltriisopropenoxysilane 31900-57-9, Dimethylsilanediol homopolymer
118536-45-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(organosilicon crosslinker compd. for photo- and moisture-curing
silicones)
IT **419548-92-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(crosslinker; organosilicon crosslinker compd. for photo- and
moisture-curing silicones)
RN 419548-92-8 HCAPLUS
CN 2-Propenoic acid, [1,1,3,3-tetramethyl-3-[2-[tris[(1-
methylethenyl)oxy]silyl]ethyl]disiloxanyl]methyl ester (9CI) (CA INDEX
NAME)



L15 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:62280 HCAPLUS

DN 134:136746

TI Hydrolyzable and polymerizable silanes with low viscosity and their use as dental materials

IN Bissinger, Peter; Gasser, Oswald; Guggenberger, Rainer; Soglowek, Wolfgang

PA ESPE Dental A.-G., Germany

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07F007-18

ICS C08L083-04; A61K006-08

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 29, 35

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19934407	A1	20010125	DE 1999-19934407	19990722
WO 2001007444	A1	20010201	WO 2000-EP6639	20000712
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1202997	A1	20020508	EP 2000-951376	20000712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003505557	T2	20030212	JP 2001-512528	20000712
PRAI DE 1999-19934407	A	19990722		
WO 2000-EP6639	W	20000712		
AB The silanes have the structure Q(YdR'ZR'SiXaRb)c [Q = C4-50 org. residue contg. .gtoreq.1 C-C double bond; R = alkyl, alkenyl, aryl, aralkyl, alkaryl; R' = direct link, C1-10 hydrocarbylene, optionally interrupted by O, S, and/or NH; X = H, halogen, OH, alkoxy, acyloxy, acyl, alkoxy carbonyl, NR12 (R1 = H, alkyl, aryl); Y = O, S, CO, CO2, O2C, OCO2, CONR1, NR1CO; Z = modified org. residue contg. Si or Ge; a = 1-3; b = (3 - a); c = 1-4; d = 0, 1]. Thus, hydrosilylation of 2-(allyloxy)ethyl methacrylate with 1,1,3,3-tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane gave CH2:CMcO2(CH2)2O(CH2)3SiMe2OSiMe2(CH2)2Si(OMe)3 in 98% yield, which could be hydrolytically homopolymd. in 96% yield or copolymd. with				

applicants

Si(OMe)₄ in 95% yield.

ST hydrolytically polymerizable silane dental material; unsatd hydrolyzable silane dental material

IT Adhesives
Dental materials and appliances
Sealing compositions
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as)

IT Hydrosilylation
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as dental materials)

IT Crosslinking
(radical; of hydrolyzed polymerizable silanes with low viscosity for dental materials)

IT 321861-59-0P 321861-61-4P 321861-68-1P
321861-69-2P 321861-72-7P 321861-73-8P
321861-75-0P 321861-76-1P 321861-79-4P
321861-80-7P
RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolyzable and polymerizable silanes with low viscosity as dental materials)

IT 321861-57-8P 321861-67-0P 321861-71-6P
321861-74-9P 321861-77-2P 321861-78-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as dental materials)

IT 3048-64-4, 5-Vinyl-2-norbornene 16839-48-8, 2-(Allyloxy)ethyl methacrylate 19778-85-9, Trimethylolethane triacrylate 137407-65-9, 1,1,3,3-Tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane 158612-33-0, 1-[2-(Dimethoxymethylsilyl)ethyl]-1,1,3,3-tetramethyldisiloxane 321861-63-6 321861-65-8 321861-70-5, Methylphenyl[2-(trimethoxysilyl)ethyl]silane
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as dental materials)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Anon; DE 19730515 A1 HCAPLUS
(2) Anon; DE 19736665 A1 HCAPLUS
(3) Anon; DE 4339399 A1 HCAPLUS
(4) Anon; DE 4433139 A1 HCAPLUS

IT 321861-59-0P 321861-61-4P 321861-68-1P
321861-69-2P 321861-72-7P 321861-73-8P
321861-75-0P 321861-76-1P 321861-79-4P
321861-80-7P
RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolyzable and polymerizable silanes with low viscosity as dental materials)

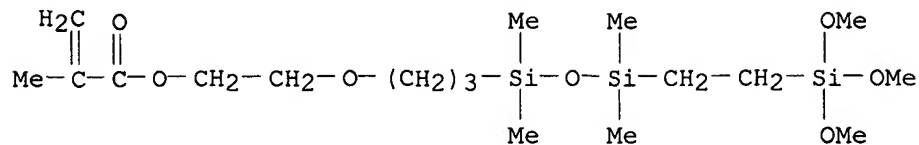
RN 321861-59-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321861-57-8

CMF C18 H40 O7 Si3



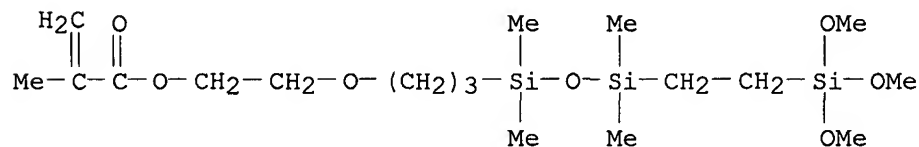
RN 321861-61-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, polymer with silicic acid (H4SiO4) tetramethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 321861-57-8

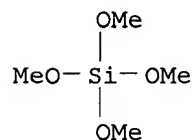
CMF C18 H40 O7 Si3



CM 2

CRN 681-84-5

CMF C4 H12 O4 Si



RN 321861-68-1 HCAPLUS

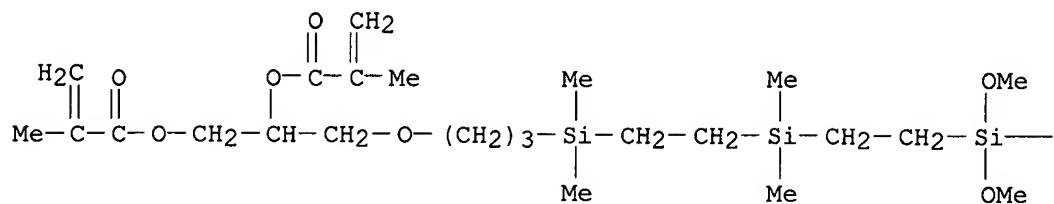
CN 2-Propenoic acid, 2-methyl-, 1-(12,12-dimethoxy-6,6,9,9-tetramethyl-2,13-dioxa-6,9,12-trisilatetradec-1-yl)-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321861-67-0

CMF C25 H50 O8 Si3

PAGE 1-A



PAGE 1-B

$$-\text{OMe}$$

RN 321861-69-2 HCAPLUS

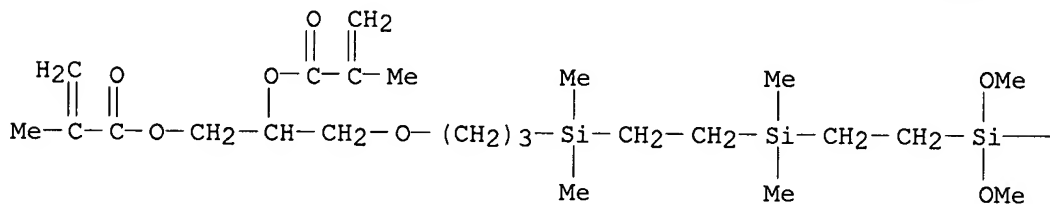
CN 2-Propenoic acid, 2-methyl-, 14,14-dimethoxy-8,8,11,11-tetramethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-4,15-dioxa-8,11,14-trisilahexadec-1-yl ester, polymer with silicic acid (H4SiO4) tetramethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 321861-67-0

CMF C25 H50 O8 Si3

PAGE 1-A



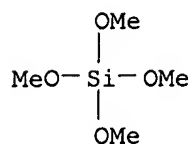
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$$-\text{OMe}$$

CM 2

CRN 681-84-5

CMF C4 H12 O4 Si



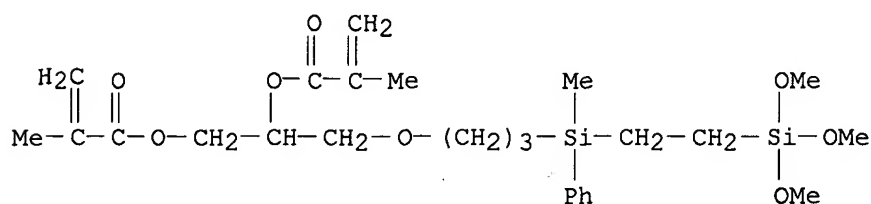
RN 321861-72-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(9,9-dimethoxy-6,6-dimethyl-2,10-dioxo-6,9-disilaundec-1-yl)-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321861-71-6

CMF C26 H42 O8 Si2



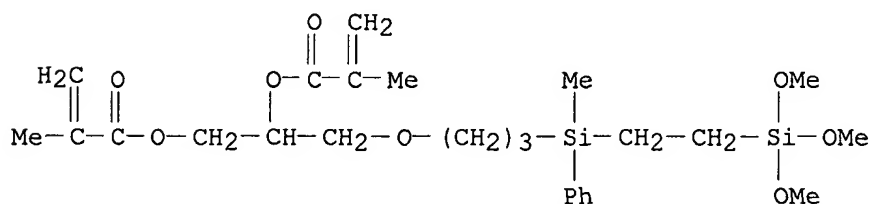
RN 321861-73-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 10,10-dimethoxy-7-methyl-1-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-7-phenyl-3,11-dioxo-7,10-disiladodec-1-yl ester, polymer with silicic acid (H4SiO4) tetramethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 321861-71-6

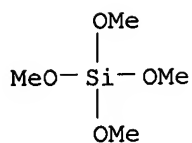
CMF C26 H42 O8 Si2



CM 2

CRN 681-84-5

CMF C4 H12 O4 Si



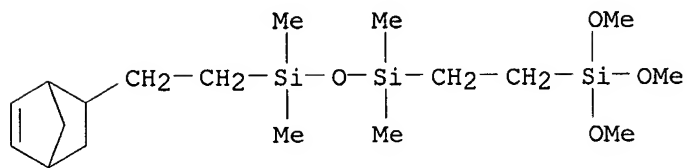
RN 321861-75-0 HCAPLUS

CN Disiloxane, 1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321861-74-9

CMF C18 H38 O4 Si3



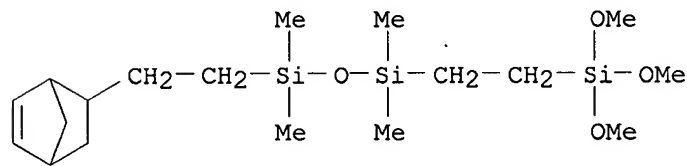
RN 321861-76-1 HCAPLUS

CN Silicic acid (H4SiO4), tetramethyl ester, polymer with 1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]disiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 321861-74-9

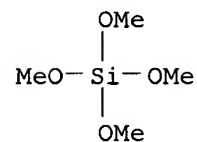
CMF C18 H38 O4 Si3



CM 2

CRN 681-84-5

CMF C4 H12 O4 Si



RN 321861-79-4 HCAPLUS

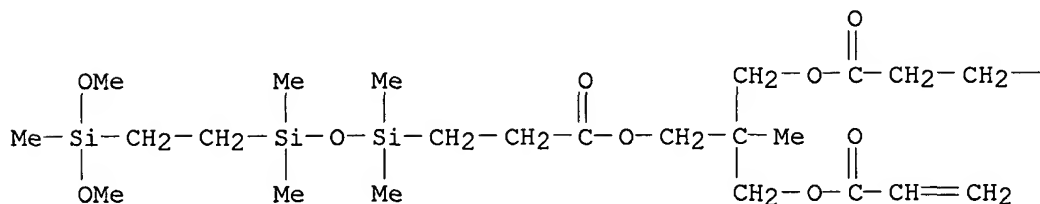
2-Propenoic acid, 2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxa-6,8,11-trisilatridec-1-yl)-2-methyl-1,3-propanediyl ester, polymer with 13-methoxy-2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxa-6,8,11-trisilatridec-1-yl)-2,8,8,10,13-hexamethyl-5-oxo-4,9,14-trioxa-8,10,13-trisilapentadec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

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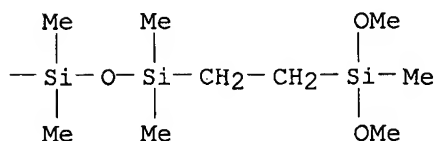
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CMF C32 H70 O12 Si6

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PAGE 1-B

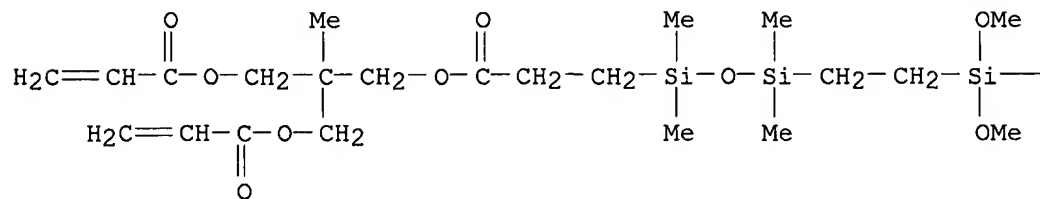


CM 2

CRN 321861-77-2

CMF C23 H44 O9 Si3

PAGE 1-A



PAGE 1-B

— Me

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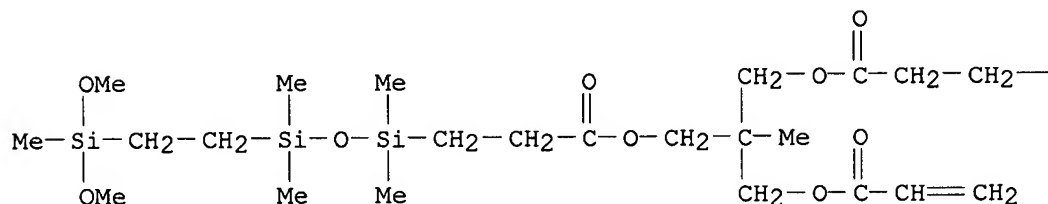
2-Propenoic acid, 2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxa-6,8,11-trisilatridec-1-yl)-2-methyl-1,3-propanediyl ester, polymer with 13-methoxy-2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxa-6,8,11-trisilatridec-1-yl)-2,8,8,10,10,13-hexamethyl-5-oxo-4,9,14-trioxa-8,10,13-trisilapentadec-1-yl 2-propenoate and silicic acid (H4SiO4) tetramethyl ester (9CI) (CA INDEX NAME)

CM 1

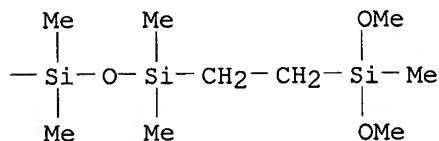
CRN 321861-78-3

CMF C32 H70 O12 Si6

PAGE 1-A



PAGE 1-B

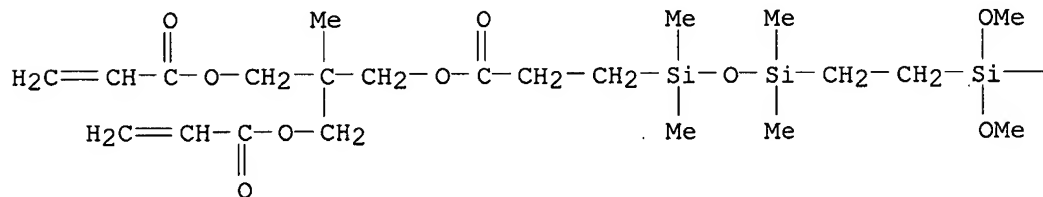


CM 2

CRN 321861-77-2

CMF C23 H44 O9 Si3

PAGE 1-A



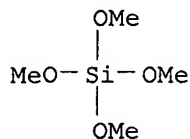
PAGE 1-B

— Me

CM 3

CRN 681-84-5

CMF C4 H12 O4 Si



IT 321861-57-8P 321861-67-0P 321861-71-6P

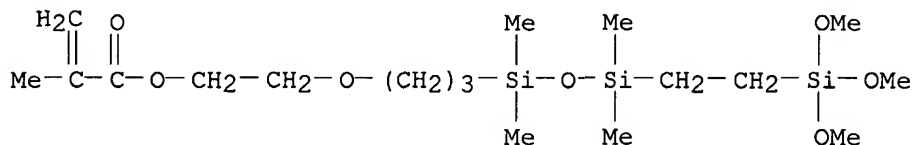
321861-74-9P 321861-77-2P 321861-78-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of hydrolyzable and polymerizable silanes with low viscosity as dental materials)

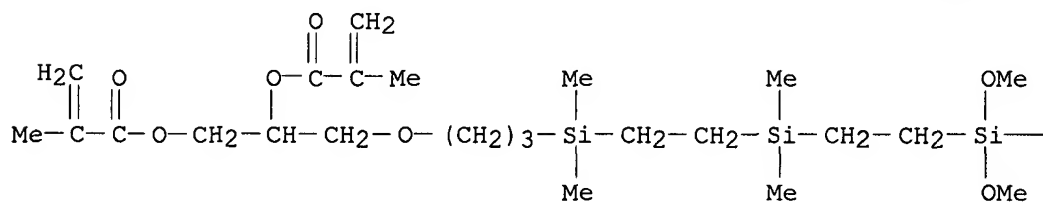
RN 321861-57-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester (9CI) (CA INDEX NAME)



RN 321861-67-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(12,12-dimethoxy-6,6,9,9-tetramethyl-2,13-dioxa-6,9,12-trisilatetradec-1-yl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



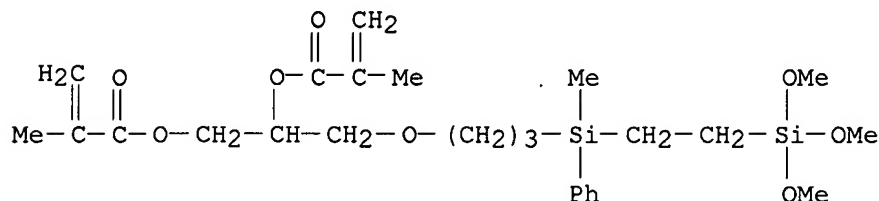
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PAGE 1-B

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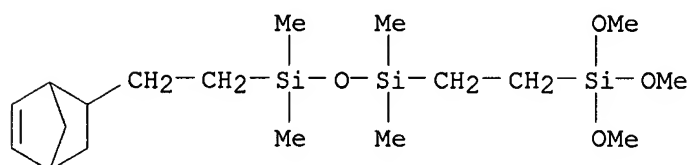
RN 321861-71-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(9,9-dimethoxy-6-methyl-6-phenyl-2,10-dioxo-6,9-disilaundec-1-yl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



RN 321861-74-9 HCAPLUS

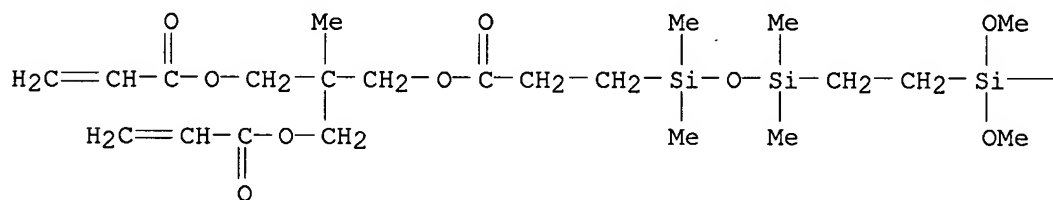
CN Disiloxane, 1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]- (9CI) (CA INDEX NAME)



RN 321861-77-2 HCAPLUS

CN 2-Propenoic acid, 2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxo-6,8,11-trisilatridec-1-yl)-2-methyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



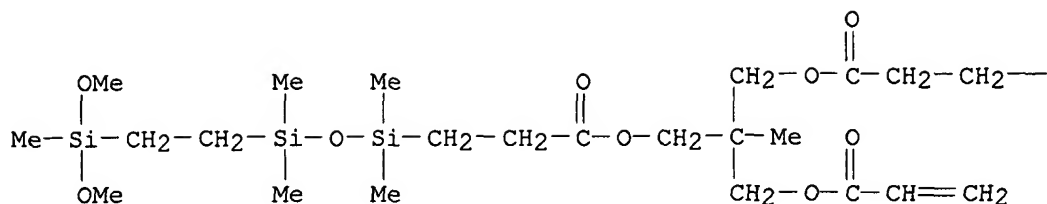
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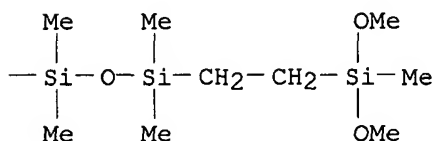
RN 321861-78-3 HCAPLUS

CN 2-Propenoic acid, 13-methoxy-2-(11-methoxy-6,6,8,8,11-pentamethyl-3-oxo-2,7,12-trioxa-6,8,11-trisilatridec-1-yl)-2,8,8,10,10,13-hexamethyl-5-oxo-4,9,14-trioxa-8,10,13-trisilapentadec-1-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L15 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:778604 HCAPLUS

DN 123:340246

TI Palladium-tert-alkyl isocyanide catalyzed intramolecular bis-silylation of vicinally disubstituted alkenes

AU Suginome, Michinori; Matsumoto, Akira; Nagata, Koichi; Ito, Yoshihiko

CS Department of Synthetic Chemistry and Biological Chemistry, Faculty of
Engineering, Kyoto University, Kyoto, 606-01, Japan

SO Journal of Organometallic Chemistry (1995), 499(1-2), C1-C3

CODEN: JORCAI; ISSN: 0022-328X

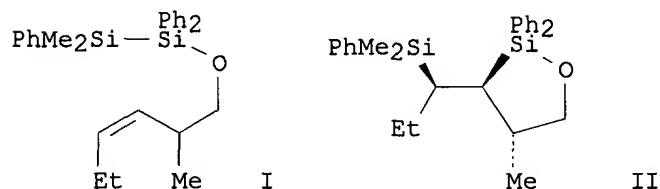
PB Elsevier

DT Journal

LA English

CC 29-6 (Organometallic and Organometalloidal Compounds)

GI



AB Intramol. bis-silylation of (Z)- and (E)-alkenes tethered to disilanyl groups by ether linkage -CH₂CH₂O-, e.g., I, proceeded with stereospecific cis-addn. to give 5-exo ring-closure products. Ph substituents on the Si atom proximal to the ether O were crucial for the successful bis-silylation reaction. NMR study of a stoichiometric reaction of disilanyl alkenes with bis(tert-alkyl isocyanide)palladium(0) complex showed that facile formation of an intermediate of bis(silyl)palladium(II) complexes may det. the obsd. high reactivity in the catalytic reaction. Disilanyl ethers derived from (Z)- and (E)-2-methyl-3-hexen-1-ol gave

trans-3,4-disubstituted 2-silatetrahydrofurans, e.g., II, and those derived from (Z)- and (E)-4-hepten-2-ol gave cis-3,5-disubstituted 2-silatetrahydrofurans selectively. Application to stereoselective synthesis of triols was demonstrated by H₂O₂ oxidn. of the cyclic products with retention of stereochem. at the Si substituted carbons.

- ST stereoselective cycloaddn alkenyloxydisilane; silylation intramol stereoselective alkenyloxydisilane; palladium isocyanide catalyst stereoselective cycloaddn alkenyloxydisilane; silafuran chiral; oxasilacyclopentane chiral
- IT Stereochemistry
(prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT Alkenes, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT Silylation
(stereoselective, bis-; prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT Cycloaddition reaction
Cycloaddition reaction catalysts
(stereoselective, prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT 170654-97-4 170654-98-5 170654-99-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(attempted; prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT 70223-83-5P 170654-96-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
- IT 3375-31-3, Palladium diacetate 14542-93-9, 1,1,3,3-Tetramethylbutyl isocyanide 22110-53-8
RL: CAT (Catalyst use); USES (Uses)
(prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT 170655-00-2 170655-01-3 170655-02-4 170655-03-5 170655-04-6
170655-05-7 170655-06-8 170655-07-9 170655-08-0 170655-09-1
170655-10-4 **170655-11-5 170655-12-6**
170655-13-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT 170654-91-8P 170654-94-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl isocyanide catalyzed intramol. silylation of vicinally disubstituted alkenes)
- IT 170654-85-0P 170654-86-1P 170654-87-2P 170654-88-3P 170654-89-4P
170654-90-7P 170654-92-9P 170654-93-0P 170654-95-2P 170899-69-1P
170899-70-4P 170899-71-5P 170899-72-6P 170899-73-7P

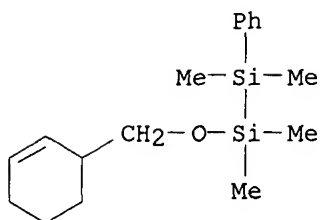
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl
 isocyanide catalyzed intramol. silylation of vicinally disubstituted
 alkenes)

IT 170655-11-5 170655-12-6 170655-13-7

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of chiral silatetrahydrofurans by palladium-tert-alkyl
 isocyanide catalyzed intramol. silylation of vicinally disubstituted
 alkenes)

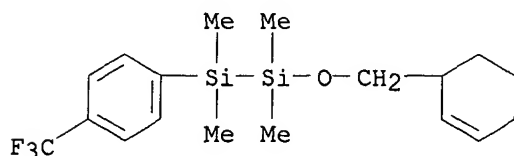
RN 170655-11-5 HCAPLUS

CN Disilane, 1-(2-cyclohexen-1-ylmethoxy)-1,1,2,2-tetramethyl-2-phenyl- (9CI)
 (CA INDEX NAME)



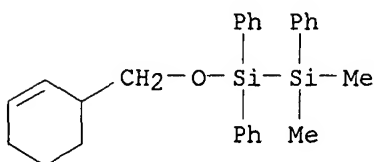
RN 170655-12-6 HCAPLUS

CN Disilane, 1-(2-cyclohexen-1-ylmethoxy)-1,1,2,2-tetramethyl-2-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 170655-13-7 HCAPLUS

CN Disilane, 1-(2-cyclohexen-1-ylmethoxy)-2,2-dimethyl-1,1,2-triphenyl- (9CI)
 (CA INDEX NAME)



L15 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:478118 HCAPLUS

DN 122:215601

TI Modifier compositions for improving mechanical properties and water
 resistance of composite materials, and composite materials using the same

IN Yanagisawa, Hideyoshi; Yamatani, Masaaki

PA Shinetsu Chem Ind Co, Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08L083-07

ICS C08L083-07; C08K003-00; C08L033-04; C08L067-06

CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

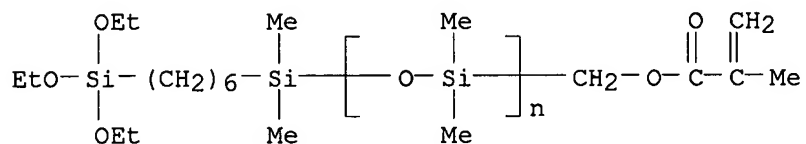
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06228439	A2	19940816	JP 1993-37555	19930201
PRAI	JP 1993-37555		19930201		
AB	The title compns. contain mainly siloxanes CH ₂ :CR ₁ CO ₂ R ₂ SiMe ₃ -k[(OSiMe ₂)nR ₃ Si(Me) ₃ -1(OR)1]k (R ₁ = H, Me; R ₂ = divalent hydrocarbon group; R ₃ = C ₁ -4 hydrocarbon group; R ₄ = C ₁ -4 hydrocarbyl; n .gtoreq.3; k = 1, 2; l = 2, 3). A glass cloth was impregnated with a toluene soln. of CH ₂ :CMeCO ₂ (CH ₂) ₃ Me ₂ Si(OSiMe ₂) ₂₂ CH:CH ₂ , heated at 110.degree. for 5 min, impregnated with an unsatd. polyester varnish, and heated at 150.degree. for 1 h to give a composite with bending strength 48 kg/mm ² initially and 43 kg/mm ² after boiled.				
ST	siloxane modifier unsatd polyester composite				
IT	Acrylic polymers, uses Glass fibers, uses Mica-group minerals, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	Polyesters, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (unsatd., modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	31900-57-9DP, Dimethylsilanediol homopolymer, dimethyl(methacryloyloxypropyl)silyl- and dimethylvinylsilyl-terminated 119686-45-2P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	159265-78-8P 162080-65-1P 162080-66-2P 162080-67-3P 162080-68-4P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	7631-86-9, Silica, uses 21645-51-2, Aluminum hydroxide, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	541-05-9, Hexamethylcyclotrisiloxane 3959-12-4 24636-31-5 RL: RCT (Reactant); RACT (Reactant or reagent) (modifier compns. for improving mech. properties and water resistance of composite materials, and composite materials using the same)				
IT	162080-68-4P RL: IMF (Industrial manufacture); TEM (Technical or engineered material				

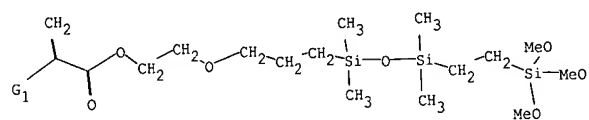
use); PREP (Preparation); USES (Uses)

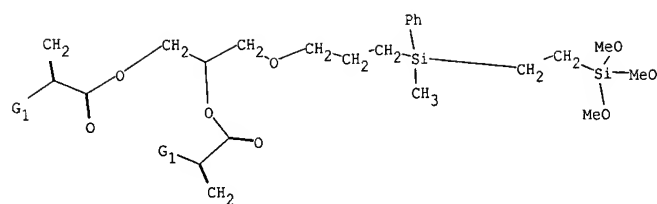
(modifier compns. for improving mech. properties and water resistance
of composite materials, and composite materials using the same)

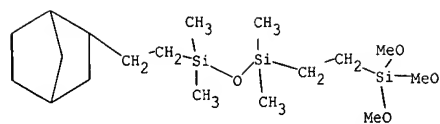
RN 162080-68-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)], .alpha.^{2}[dimethyl[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]silyl]-.omega.-[[dimethyl[6-(triethoxysilyl)hexyl]silyl]oxy]- (9CI) (CA INDEX NAME)

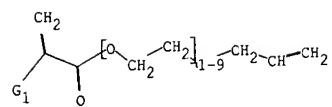


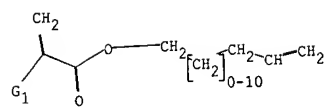


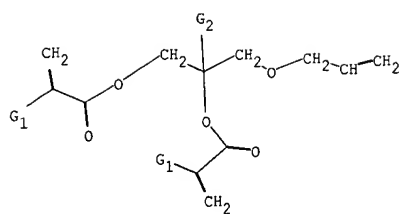


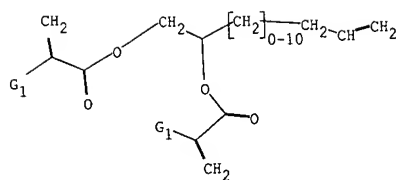


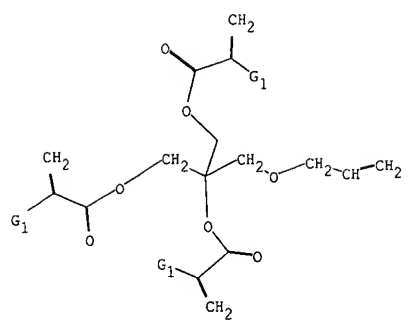
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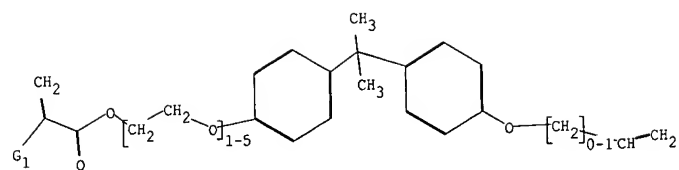


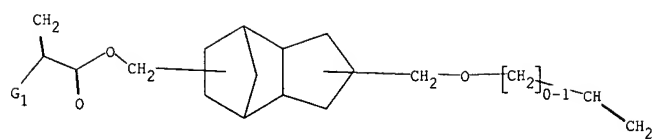


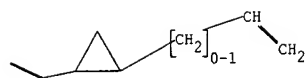


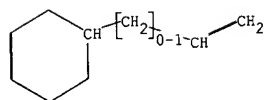


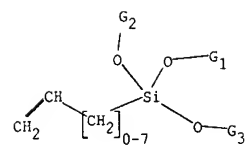


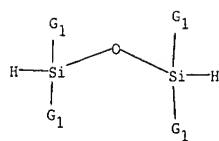


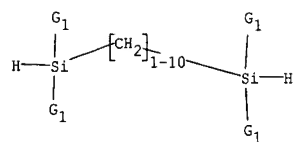


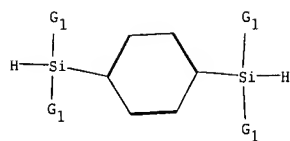


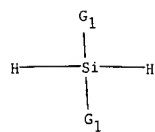












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L1 STRUCTURE UPLOADED

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STRUCTURES CONTAINING VARIABLE NODES NOT VALID IN EXACT OR FAMILY SEARCH
You have requested a full structure (EXA or FAM) search on a
structure containing one of the special variable-atom symbols
A, M, Q, or X, or a variable group G. Only bond variability
is allowed in structures for EXA or FAM searches. Variable
nodes are never permitted.

=> s l1 sam
SAMPLE SEARCH INITIATED 14:46:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 22 TO 418
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

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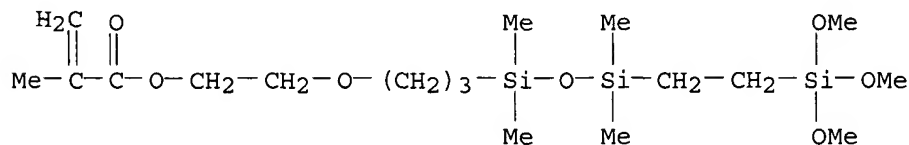
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FULL SCREEN SEARCH COMPLETED - 177 TO ITERATE

100.0% PROCESSED 177 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L4 3 SEA SSS FUL L1

=> d scan

L4 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-
 trioxa-7,9,12-trisilatetradec-1-yl ester (9CI)
MF C18 H40 O7 Si3
CI COM

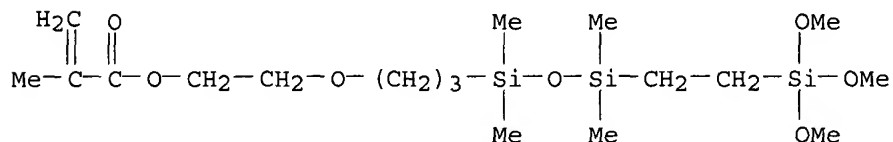


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

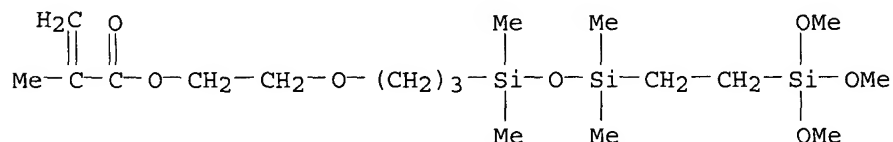
L4 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, homopolymer (9CI)
 MF (C18 H40 O7 Si3)x
 CI PMS

CM 1

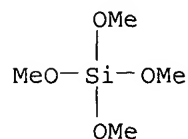


L4 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, polymer with silicic acid (H4SiO4) tetramethyl ester (9CI)
 MF (C18 H40 O7 Si3 . C4 H12 O4 Si)x
 CI PMS

CM 1



CM 2



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE COVERS 1907 - 21 Apr 2003 VOL 138 ISS 17

FILE LAST UPDATED: 20 Apr 2003 (20030420/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l4

L5 1 L4

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L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:62280 CAPLUS

DOCUMENT NUMBER: 134:136746

TITLE: Hydrolyzable and polymerizable silanes with low viscosity and their use as dental materials

INVENTOR(S): Bissinger, Peter; Gasser, Oswald; Guggenberger, Rainer; Soglowek, Wolfgang

PATENT ASSIGNEE(S): ESPE Dental A.-G., Germany

SOURCE: Ger. Offen., 20 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19934407	A1	20010125	DE 1999-19934407	19990722
WO 2001007444	A1	20010201	WO 2000-EP6639	20000712
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1202997	A1	20020508	EP 2000-951376	20000712
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JP 2003505557	T2	20030212	JP 2001-512528	20000712
PRIORITY APPLN. INFO.: DE 1999-19934407 A 19990722				
WO 2000-EP6639 W 20000712				

AB The silanes have the structure Q(YdR'ZR'SiXaRb)c [Q = C4-50 org. residue contg. .gtoreq.1 C-C double bond; R = alkyl, alkenyl, aryl, aralkyl, alkaryl; R' = direct link, C1-10 hydrocarbylene, optionally interrupted by O, S, and/or NH; X = H, halogen, OH, alkoxy, acyloxy, acyl, alkoxycarbonyl, NR12 (R1 = H, alkyl, aryl); Y = O, S, CO, CO2, O2C, OCO2, CONR1, NR1CO; Z = modified org. residue contg. Si or Ge; a = 1-3; b = (3 - a); c = 1-4; d = 0, 1]. Thus, hydrosilylation of 2-(allyloxy)ethyl methacrylate with 1,1,3,3-tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane gave CH2:CMcO2(CH2)2O(CH2)3SiMe2OSiMe2(CH2)2Si(OMe)3 in 98% yield,

which could be hydrolytically homopolymd. in 96% yield or copolymd. with Si(OMe)₄ in 95% yield.

IT 321861-59-0P 321861-61-4P

RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hydrolyzable and polymerizable silanes with low viscosity as dental materials)

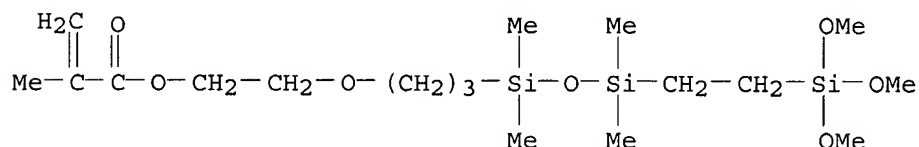
RN 321861-59-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321861-57-8

CMF C18 H40 O7 Si3



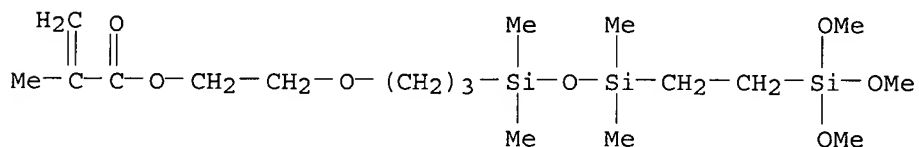
RN 321861-61-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester, polymer with silicic acid (H₄SiO₄) tetramethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 321861-57-8

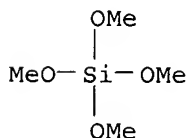
CMF C18 H40 O7 Si3



CM 2

CRN 681-84-5

CMF C4 H12 O4 Si



IT 321861-57-8P

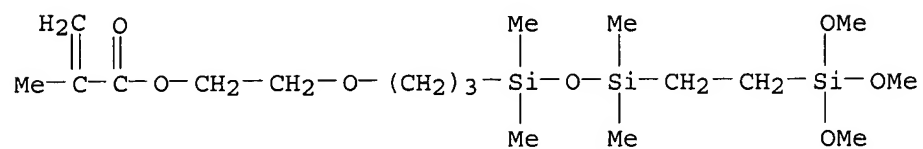
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of hydrolyzable and polymerizable silanes with low viscosity as

dental materials)

RN 321861-57-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 12,12-dimethoxy-7,7,9,9-tetramethyl-3,8,13-trioxa-7,9,12-trisilatetradec-1-yl ester (9CI) (CA INDEX NAME)



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0 ANSWERS

SEARCH TIME: 00.00.01

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FULL SEARCH INITIATED 14:51:45 FILE 'REGISTRY'

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100.0% PROCESSED 698 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L9 3 SEA SSS FUL L8

=> file caplus

=> s 19
L10

1 L9

=> s l10 ibib abs hitstr
MISSING OPERATOR L10 IBIB

The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> d l10 ibib abs hitstr

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:62280 CAPLUS

DOCUMENT NUMBER: 134:136746

TITLE: Hydrolyzable and polymerizable silanes with low
viscosity and their use as dental materials

INVENTOR(S): Bissinger, Peter; Gasser, Oswald; Guggenberger,
Rainer; Soglowek, Wolfgang

PATENT ASSIGNEE(S): ESPE Dental A.-G., Germany

SOURCE: Ger. Offen., 20 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19934407	A1	20010125	DE 1999-19934407	19990722
WO 2001007444	A1	20010201	WO 2000-EP6639	20000712
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1202997	A1	20020508	EP 2000-951376	20000712
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003505557	T2	20030212	JP 2001-512528	20000712

PRIORITY APPLN. INFO.:

DE 1999-19934407 A 19990722

WO 2000-EP6639 W 20000712

AB The silanes have the structure Q(YdR'ZR'SiXaRb)c [Q = C4-50 org. residue contg. .gtoreq.1 C-C double bond; R = alkyl, alkenyl, aryl, aralkyl, alkaryl; R' = direct link, C1-10 hydrocarbylene, optionally interrupted by O, S, and/or NH; X = H, halogen, OH, alkoxy, acyloxy, acyl, alkoxycarbonyl, NR12 (R1 = H, alkyl, aryl); Y = O, S, CO, CO2, O2C, OCO2, CONR1, NR1CO; Z = modified org. residue contg. Si or Ge; a = 1-3; b = (3 - a); c = 1-4; d = 0, 1]. Thus, hydrosilylation of 2-(allyloxy)ethyl methacrylate with 1,1,3,3-tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane gave CH2:CMeco2(CH2)2O(CH2)3SiMe2OSiMe2(CH2)2Si(OMe)3 in 98% yield, which could be hydrolytically homopolymd. in 96% yield or copolymd. with Si(OMe)4 in 95% yield.

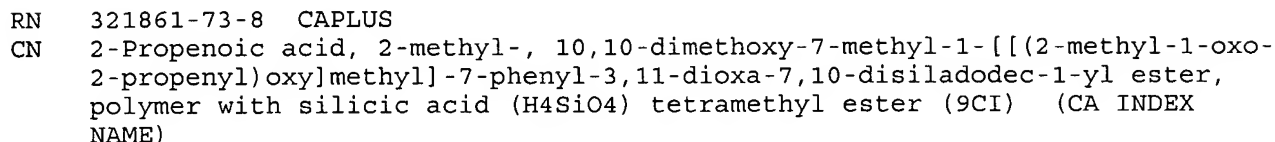
IT 321861-72-7P 321861-73-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolyzable and polymerizable silanes with low viscosity as dental materials)

RN 321861-72-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(9,9-dimethoxy-6,6-dimethyl-2,10-dioxo-6,9-disilaundec-1-yl)-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

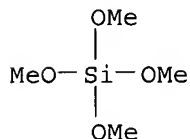
CRN 321861-71-6
CMF C26 H42 O8 Si2



CRN 321861-71-6
CMF C26 H42 O8 Si2



CRN 681-84-5
CMF C4 H12 O4 Si

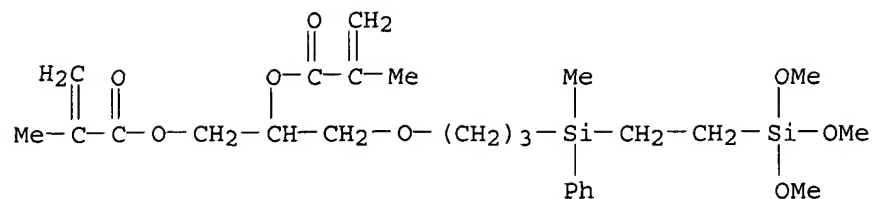


IT 321861-71-6P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as dental materials)

RN 321861-71-6 CAPLUS

2-Propenoic acid, 2-methyl-, 1-(9,9-dimethoxy-6-methyl-6-phenyl-2,10-dioxaspiro[5.5]undec-1-yl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL SEARCH INITIATED 14:53:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 821 TO ITERATE

100.0% PROCESSED 821 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

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=> s l12

L13 1 L12

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YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

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=> s l13

L14 1 L12

=> d l14 ibib abs hitstr

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:62280 CAPLUS

DOCUMENT NUMBER: 134:136746

TITLE: Hydrolyzable and polymerizable silanes with low viscosity and their use as dental materials

INVENTOR(S): Bissinger, Peter; Gasser, Oswald; Guggenberger, Rainer; Soglowek, Wolfgang

PATENT ASSIGNEE(S): ESPE Dental A.-G., Germany

SOURCE: Ger. Offen., 20 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19934407	A1	20010125	DE 1999-19934407	19990722
WO 2001007444	A1	20010201	WO 2000-EP6639	20000712
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1202997	A1	20020508	EP 2000-951376	20000712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003505557	T2	20030212	JP 2001-512528	20000712
PRIORITY APPLN. INFO.: DE 1999-19934407 A 19990722				
WO 2000-EP6639 W 20000712				
AB	The silanes have the structure Q(YdR'ZR'SiXaRb)c [Q = C4-50 org. residue contg. .gtoreq.1 C-C double bond; R = alkyl, alkenyl, aryl, aralkyl, alkaryl; R' = direct link, C1-10 hydrocarbylene, optionally interrupted by O, S, and/or NH; X = H, halogen, OH, alkoxy, acyloxy, acyl, alkoxycarbonyl, NR12 (R1 = H, alkyl, aryl); Y = O, S, CO, CO2, O2C, OCO2, CONR1, NR1CO; Z = modified org. residue contg. Si or Ge; a = 1-3; b = (3 - a); c = 1-4; d = 0, 1]. Thus, hydrosilylation of 2-(allyloxy)ethyl methacrylate with 1,1,3,3-tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane gave CH2:CMeco2(CH2)2O(CH2)3SiMe2OSiMe2(CH2)2Si(OMe)3 in 98% yield, which could be hydrolytically homopolymd. in 96% yield or copolymd. with Si(OMe)4 in 95% yield.			
IT	321861-75-0P 321861-76-1P RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (hydrolyzable and polymerizable silanes with low viscosity as dental materials)			
RN	321861-75-0 CAPLUS			
CN	Disiloxane, 1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-[2-(trimethoxysilyl)ethyl]-, homopolymer (9CI) (CA INDEX NAME)			
CM	1			
CRN	321861-74-9			
CMF	C18 H38 O4 Si3			

RN 321861-76-1 CAPLUS
CN Silicic acid (H₄SiO₄), tetramethyl ester, polymer with
1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-[2-
(trimethoxysilyl)ethyl]disiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 321861-74-9
CMF C18 H38 O4 Si3

CM 2

CRN 681-84-5
CMF C4 H12 O4 Si

IT 321861-74-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of hydrolyzable and polymerizable silanes with low viscosity as
dental materials)
RN 321861-74-9 CAPLUS
CN Disiloxane, 1-(2-bicyclo[2.2.1]hept-5-en-2-ylethyl)-1,1,3,3-tetramethyl-3-
[2-(trimethoxysilyl)ethyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1      STRUCTURE UPLOADED

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SEARCH TIME: 00.00.02

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Uploading 06.str

L3      STRUCTURE UPLOADED

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SEARCH TIME: 00.00.03

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SEARCH TIME: 00.00.01

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100.0% PROCESSED 12021 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8      0 SEA SSS FUL L7

=>
Uploading 09.str

L9      STRUCTURE UPLOADED

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FULL SEARCH INITIATED 14:59:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 246 TO ITERATE
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100.0% PROCESSED 246 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L10 0 SEA SSS FUL L9

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Uploading 10.str

L11 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 15:00:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2869 TO ITERATE

100.0% PROCESSED 2869 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L12 0 SEA SSS FUL L11

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Uploading 11.str

L13 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 15:00:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7634 TO ITERATE

100.0% PROCESSED 7634 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L14 0 SEA SSS FUL L13

=>
Uploading 12.str

L15 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 15:01:15 FILE 'REGISTRY'
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100.0% PROCESSED 14929 ITERATIONS
SEARCH TIME: 00.00.01

149 ANSWERS

L16 149 SEA SSS FUL L15

=>
Uploading 13.str

L17 STRUCTURE UPLOADED

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FULL SEARCH INITIATED 15:01:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 22.8% PROCESSED 400000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.07

141 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000

PROJECTED ANSWERS: EXCEEDS 545

L18 141 SEA SSS FUL L17

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Uploading 14.str

L19 STRUCTURE UPLOADED

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SEARCH TIME: 00.00.03

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SEARCH TIME: 00.00.02

L2      143 SEA SSS FUL L1

=>
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L3      STRUCTURE UPLOADED

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FULL SCREEN SEARCH COMPLETED - 161273 TO ITERATE

100.0% PROCESSED 161273 ITERATIONS 56 ANSWERS
SEARCH TIME: 00.00.03

L4      56 SEA SSS FUL L3

=>
Uploading 07.str

L5      STRUCTURE UPLOADED

=> s l5 full
FULL SEARCH INITIATED 14:58:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11914 TO ITERATE

100.0% PROCESSED 11914 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L6      1 SEA SSS FUL L5

=>
Uploading 08.str

L7      STRUCTURE UPLOADED

=> s l7 full
FULL SEARCH INITIATED 14:58:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12021 TO ITERATE

100.0% PROCESSED 12021 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8      0 SEA SSS FUL L7

=>
Uploading 09.str

L9      STRUCTURE UPLOADED

=> s l9 full
FULL SEARCH INITIATED 14:59:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 246 TO ITERATE
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100.0% PROCESSED 246 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L10 0 SEA SSS FUL L9

=>
Uploading 10.str

L11 STRUCTURE UPLOADED

=> s l11 full
FULL SEARCH INITIATED 15:00:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2869 TO ITERATE

100.0% PROCESSED 2869 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L12 0 SEA SSS FUL L11

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L13 STRUCTURE UPLOADED

=> s l13 full
FULL SEARCH INITIATED 15:00:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7634 TO ITERATE

100.0% PROCESSED 7634 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L14 0 SEA SSS FUL L13

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Uploading 12.str

L15 STRUCTURE UPLOADED

=> s l15 full
FULL SEARCH INITIATED 15:01:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14929 TO ITERATE

100.0% PROCESSED 14929 ITERATIONS
SEARCH TIME: 00.00.01

149 ANSWERS

L16 149 SEA SSS FUL L15

=>
Uploading 13.str

L17 STRUCTURE UPLOADED

=> s l17 full
FULL SEARCH INITIATED 15:01:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 22.8% PROCESSED 400000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.07

141 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000

PROJECTED ANSWERS: EXCEEDS 545

L18 141 SEA SSS FUL L17

=>

Uploading 14.str

L19 STRUCTURE UPLOADED

=> s l19 full

FULL SEARCH INITIATED 15:02:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 356733 TO ITERATE

100.0% PROCESSED 356733 ITERATIONS (1 INCOMPLETE) 291 ANSWERS
SEARCH TIME: 00.00.03

L20 291 SEA SSS FUL L19

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(FILE 'HOME' ENTERED AT 14:56:08 ON 21 APR 2003)

FILE 'REGISTRY' ENTERED AT 14:56:21 ON 21 APR 2003

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L3 STRUCTURE UPLOADED
L4 56 S L3 FULL
L5 STRUCTURE UPLOADED
L6 1 S L5 FULL
L7 STRUCTURE UPLOADED
L8 0 S L7 FULL
L9 STRUCTURE UPLOADED
L10 0 S L9 FULL
L11 STRUCTURE UPLOADED
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L13 STRUCTURE UPLOADED
L14 0 S L13 FULL
L15 STRUCTURE UPLOADED
L16 149 S L15 FULL
L17 STRUCTURE UPLOADED
L18 141 S L17 FULL
L19 STRUCTURE UPLOADED
L20 291 S L19 FULL

=> s l2 or l4 or l6 or l8 or l10 or l12 or l14 or l16 or l18 or l20

L21 758 L2 OR L4 OR L6 OR L8 OR L10 OR L12 OR L14 OR L16 OR L18 OR L20

=> d his

(FILE 'HOME' ENTERED AT 14:56:08 ON 21 APR 2003)

FILE 'REGISTRY' ENTERED AT 14:56:21 ON 21 APR 2003

L1 STRUCTURE UPLOADED
L2 143 S L1 FULL
L3 STRUCTURE UPLOADED
L4 56 S L3 FULL
L5 STRUCTURE UPLOADED
L6 1 S L5 FULL
L7 STRUCTURE UPLOADED
L8 0 S L7 FULL
L9 STRUCTURE UPLOADED
L10 0 S L9 FULL
L11 STRUCTURE UPLOADED
L12 0 S L11 FULL

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 1217

L29 510 SEA SSS FUL L28

=> d his

(FILE 'HOME' ENTERED AT 14:56:08 ON 21 APR 2003)

FILE 'REGISTRY' ENTERED AT 14:56:21 ON 21 APR 2003

L1 STRUCTURE UPLOADED
L2 143 S L1 FULL
L3 STRUCTURE UPLOADED
L4 56 S L3 FULL
L5 STRUCTURE UPLOADED
L6 1 S L5 FULL
L7 STRUCTURE UPLOADED
L8 0 S L7 FULL
L9 STRUCTURE UPLOADED
L10 0 S L9 FULL
L11 STRUCTURE UPLOADED
L12 0 S L11 FULL
L13 STRUCTURE UPLOADED
L14 0 S L13 FULL
L15 STRUCTURE UPLOADED
L16 149 S L15 FULL
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L18 141 S L17 FULL
L19 STRUCTURE UPLOADED
L20 291 S L19 FULL
L21 758 S L2 OR L4 OR L6 OR L8 OR L10 OR L12 OR L14 OR L16 OR L18 OR L2
L22 STRUCTURE UPLOADED
L23 381 S L22 FULL
L24 STRUCTURE UPLOADED
L25 82 S L24 FULL
L26 STRUCTURE UPLOADED
L27 215 S L26 FULL
L28 STRUCTURE UPLOADED
L29 510 S L28 FULL

=> s l23 or l25 or l27 or l29

L30 1186 L23 OR L25 OR L27 OR L29

=> d his

(FILE 'HOME' ENTERED AT 14:56:08 ON 21 APR 2003)

FILE 'REGISTRY' ENTERED AT 14:56:21 ON 21 APR 2003

L1 STRUCTURE UPLOADED
L2 143 S L1 FULL
L3 STRUCTURE UPLOADED
L4 56 S L3 FULL
L5 STRUCTURE UPLOADED
L6 1 S L5 FULL
L7 STRUCTURE UPLOADED
L8 0 S L7 FULL
L9 STRUCTURE UPLOADED
L10 0 S L9 FULL
L11 STRUCTURE UPLOADED
L12 0 S L11 FULL
L13 STRUCTURE UPLOADED

L14 0 S L13 FULL
L15 STRUCTURE UPLOADED
L16 149 S L15 FULL
L17 STRUCTURE UPLOADED
L18 141 S L17 FULL
L19 STRUCTURE UPLOADED
L20 291 S L19 FULL
L21 758 S L2 OR L4 OR L6 OR L8 OR L10 OR L12 OR L14 OR L16 OR L18 OR L2
L22 STRUCTURE UPLOADED
L23 381 S L22 FULL
L24 STRUCTURE UPLOADED
L25 82 S L24 FULL
L26 STRUCTURE UPLOADED
L27 215 S L26 FULL
L28 STRUCTURE UPLOADED
L29 510 S L28 FULL
L30 1186 S L23 OR L25 OR L27 OR L29

=>
Uploading 15.str

L31 STRUCTURE UPLOADED

=> s l31 full
FULL SEARCH INITIATED 15:06:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 42150 TO ITERATE

100.0% PROCESSED 42150 ITERATIONS 1719 ANSWERS
SEARCH TIME: 00.00.01

L32 1719 SEA SSS FUL L31

=> d his

(FILE 'HOME' ENTERED AT 14:56:08 ON 21 APR 2003)

FILE 'REGISTRY' ENTERED AT 14:56:21 ON 21 APR 2003

L1 STRUCTURE UPLOADED
L2 143 S L1 FULL
L3 STRUCTURE UPLOADED
L4 56 S L3 FULL
L5 STRUCTURE UPLOADED
L6 1 S L5 FULL
L7 STRUCTURE UPLOADED
L8 0 S L7 FULL
L9 STRUCTURE UPLOADED
L10 0 S L9 FULL
L11 STRUCTURE UPLOADED
L12 0 S L11 FULL
L13 STRUCTURE UPLOADED
L14 0 S L13 FULL
L15 STRUCTURE UPLOADED
L16 149 S L15 FULL
L17 STRUCTURE UPLOADED
L18 141 S L17 FULL
L19 STRUCTURE UPLOADED
L20 291 S L19 FULL
L21 758 S L2 OR L4 OR L6 OR L8 OR L10 OR L12 OR L14 OR L16 OR L18 OR L2
L22 STRUCTURE UPLOADED
L23 381 S L22 FULL
L24 STRUCTURE UPLOADED
L25 82 S L24 FULL
L26 STRUCTURE UPLOADED
L27 215 S L26 FULL

L28 STRUCTURE UPLOADED
L29 510 S L28 FULL
L30 1186 S L23 OR L25 OR L27 OR L29
L31 STRUCTURE UPLOADED
L32 1719 S L31 FULL

=> file caplus

```
=> s 121 (L) 130
      1128 L21
      1691 L30
L33      4 L21 (L) L30
```

```
=> s 133 (L)132
      6383 L32
L34      0 L33 (L)L32
```

```
=> s 121 and 130 and 132
      1128 L21
      1691 L30
      6383 L32
L35      0 L21 AND L30 AND L32
```

```
=> log y
```

	Hits	Search Text	DBs
1	1	("4946901").PN.	USPAT; US-PGPUB
2	3	((("6335413") or ("6121362") or ("5750589")).PN.	USPAT; US-PGPUB
3	1	ep-963751-\$.did.	JPO; DERWENT
4	0	wo9406807-\$.did.	JPO; DERWENT
5	1	wo-9406807-\$.did.	JPO; DERWENT
6	1	wo-9822521-\$.did.	JPO; DERWENT
7	1	de-19860361-\$.did.	JPO; DERWENT
8	1	de-4339399-\$.did.	JPO; DERWENT
9	1	de-19736665-\$.did.	DERWENT
10	1	de-19730515-\$.did.	DERWENT
11	1	de-4433139-\$.did.	DERWENT
12	1	de-4339399-\$.did.	JPO; DERWENT
13	1	de-19860361-\$.did.	JPO; DERWENT
14	2	jp-07173178-\$.did.	JPO; DERWENT
15	2	jp-11001530-\$.did.	JPO; DERWENT
16	2	jp-06228439-\$.did.	JPO; DERWENT
17	1	ep-450624-\$.did.	JPO; DERWENT
18	1	ep-682033-\$.did.	JPO; DERWENT
19	1	de-3407087-\$.did.	JPO; DERWENT
20	1	de-4011044-\$.did.	JPO; DERWENT
21	0	ep-91105355-\$.did.	JPO; DERWENT
22	0	1991ep-105355	JPO; DERWENT
23	0	1991ep-105355.ap.	JPO; DERWENT
24	1	1991ep-0105355.ap.	JPO; DERWENT
25	1	de-4125201-\$.did.	JPO; DERWENT
26	1	de-4310733-\$.did.	JPO; DERWENT
27	1	de-4405261-\$.did.	JPO; DERWENT
28	2839	tetramethyldisiloxane	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
29	2	(di adj dimethylsilyl) adj (alkane or methane or ethane or propane or butane or pentane or hexane or heptane or octane or nonane or decane or benzene)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
30	1976	dialkylsilane or dimethylsilane or diarylsilane	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
31	4537	tetramethyldisiloxane or ((di adj dimethylsilyl) adj (alkane or methane or ethane or propane or butane or pentane or hexane or heptane or octane or nonane or decane or benzene)) or (dialkylsilane or dimethylsilane or diarylsilane)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
32	15	allyloxyethylmethacrylate or allyloxyethylacrylate or allyloxy adj meth adj acrylate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
33	1456	allyl near3 (methacryloxypolyoxyethylene or methacryloxy poly adj ethylene oxide) glycerol near3dimethacrylate near3 allylether	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
34	126551	norborene	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
35	471	vinyl adj norborene	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
36	12	trimethylolpropanetriacrylate or trimethylolpropane adj triacrylate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
37	7706	vinyl adj cyclohexene	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
38	1643	(allyloxyethylmethacrylate or allyloxyethylacrylate or allyloxy adj meth adj acrylate) or (allyl near3 (methacryloxy polyoxyethylene or methacryloxy poly adj ethylene oxide)) or (glycerol near3dimethacrylate near3 allylether) or norborene or (vinyl adj norborene) or (trimethylolpropanetriacrylate or trimethylolpropane adj triacrylate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
39	133300		

	Hits	Search Text	DBs
40	134472	((allyloxyethylmethacrylate or allyloxyethylacrylate or allyloxy adj meth adj acrylate) or (allyl near3 (methacryloxypropyloxyethylene or methacryloxypropyl adj ethylene oxide)) or (glycerol near3dimethacrylate near3 allylether) or norborene or (vinyl adj norborene) or (trimethylolpropanetriacrylate or trimethylolpropane adj triacrylate)) or (vinyl adj cyclohexene)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
41	134067	(allyloxyethylmethacrylate or allyloxyethylacrylate or allyloxy adj meth adj acrylate) or (allyl near3 (methacryloxypropyloxyethylene or methacryloxypropyl adj ethylene oxide)) or (glycerol near3dimethacrylate near3 allylether) or (vinyl adj norborene) or (trimethylolpropanetriacrylate or trimethylolpropane adj triacrylate) or (vinyl adj cyclohexene)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
42	34	(tetramethyldisiloxane or (di adj dimethylsilyl) adj (alkane or methane or ethane or propane or butane or pentane or hexane or heptane or octane or nonane or decane or benzene)) or (dialkylsilane or dimethylsilane or diarylsilane)) same ((allyloxyethylmethacrylate or allyloxyethylacrylate or allyloxy adj meth adj acrylate) or (allyl near3 (methacryloxypropyloxyethylene or methacryloxypropyl adj ethylene oxide)) or (glycerol near3dimethacrylate near3 allylether) or (vinyl adj norborene) or (trimethylolpropanetriacrylate or trimethylolpropane adj triacrylate) or (vinyl adj cyclohexene))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
43	650	(528/12).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
44	1827	(528/32).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
45	499	(528/41).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
46	1520	(526/279).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
47	1176	(528/25).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
48	1169	(106/35).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
49	295	(433/226).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
50	221	(433/217.1).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB